

AN 116:22551 CA

TI Curable adhesive compositions for ***dental*** titanium or titanium alloy

IN Aitsuta, Mitsuru; Tanaka, Takao; Matsumura, Hideo; Yoshida, Keiichi; Honda, Shigemichi

PA Mitsui Petrochemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 03177470	A2	19910801	JP 1989-317153	19891206

AB The title compns. comprise titanate coupling agents, radically polymerizable monomers, trialkylboron or their partial oxides, and optionally acidic group-contg. polymerizable monomers. Thus, a mixt. of 98 parts Me methacrylate (I) and 2 parts Plenact KR-7 (isopropylidimethacrylisostearoyl titanate) was spread on surfaces of two 3-mm Ti disks having diam. 10 and 6 mm, resp., dried, then a mixt. of 100, Super-Bond Catalyst (tributylboron partial oxide) 40, and Super-Bond Opaque Ivory (PMMA) 60 parts was spread on the both coatings, then the disks were bonded with the coated surfaces to give a sample specimen, which showed shear bonding strength 26.5 and 14.5 MPa, before and after 50,000 cycles of 1 min each in cold water at 4.degree. and in hot water at 60.degree., resp.

IT ***Dental*** materials and appliances
(alloys, titanium or titanium, adhesives for, methacrylate polymer compns. contg. titanates and trialkylborons as)

IT Adhesives
(self-crosslinking, methacrylate polymers, contg. titanates and trialkylborons, for ***dental*** titanium, heat-shock-resistant)

IT ***138283-05-3*** ***138283-06-4*** ***138283-07-5***
138283-08-6

RL: USES (Uses)

(adhesives contg., curable, for ***dental*** titanium, heat-shock-resistant)

IT 7440-32-6, Titanium, miscellaneous

RL: MSC (Miscellaneous)

(***dental*** , adhesives for, methacrylate polymer compns. contg. titanate coupling agents and trialkylborons as)

IT 122-56-5D, Tributylboron, partially oxidized 95508-14-8, Super-Bond

RL: USES (Uses)

(methacrylate polymer adhesives contg., with titanate coupling agents, for ***dental*** titanium)

L37 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS

RN ****138283-05-3*** REGISTRY

CN Titanium, (isooctadecanoato-O)bis(2-methyl-2-propenoato-O)(2-propanolato)-
polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
(isooctadecanoato-O)bis(2-methyl-2-propenoato-O)(2-propanolato)titanium
(9CI)

MF (C29 H52 O7 Ti . C5 H8 O2)x

CI PMS

PCT Polyacrylic

SR CA

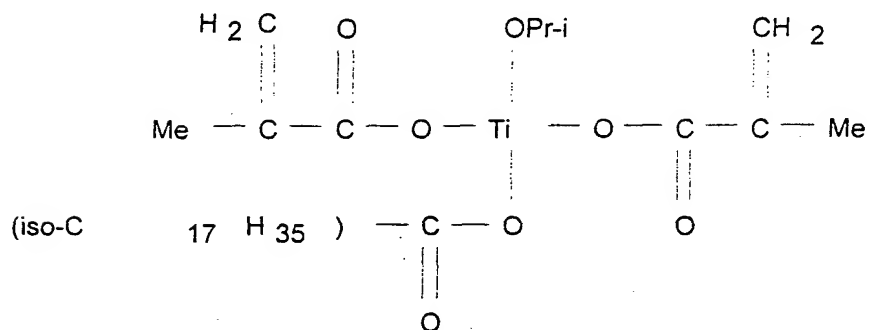
LC STN Files: CA, CAPLUS

CM 1

CRN 61548-33-2

CMF C29 H52 O7 Ti

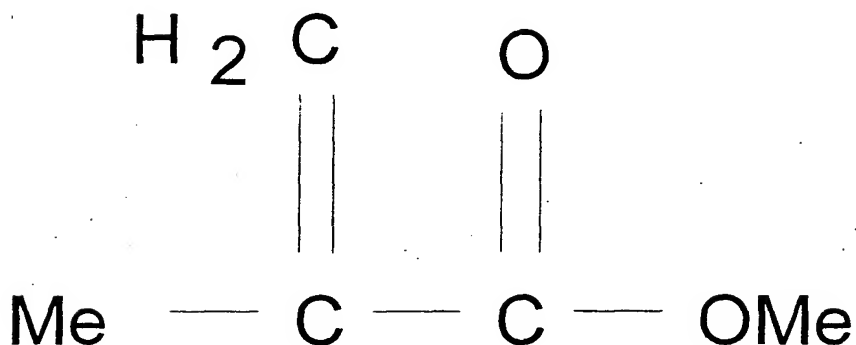
CCI IDS



CM 2

CRN 80-62-6

CMF C5 H8 O2



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)